6

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/900,751**DATE: 10/29/2001

TIME: 17:58:04

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10292001\I900751.raw

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4 <110> APPLICANT: Allen, Keith D
         Leviten, Michael W.
 7 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING SERINE
         PROTEASE GENE DISRUPTIONS
10 <130> FILE REFERENCE: R-386
12 <140> CURRENT APPLICATION NUMBER: US 09/900,751
13 <141> CURRENT FILING DATE: 2001-07-06
15 <150> PRIOR APPLICATION NUMBER: US 60/217,449
16 <151> PRIOR FILING DATE: 2000-07-10
18 <150> PRIOR APPLICATION NUMBER: US 60/223,170
19 <151> PRIOR FILING DATE: 2000-08-07
21 <150> PRIOR APPLICATION NUMBER: US 60/223,460
22 <151> PRIOR FILING DATE: 2000-08-07
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26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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29 <211> LENGTH: 3106
30 <212> TYPE: DNA
31 <213> ORGANISM: Mus musculus
33 <400> SEQUENCE: 1
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36 tcaaqtacaa ctcccqqcta qaqaacatqa atqqctttqa qqaqqqtqtq qaqttcctqc 180
37 ctgcqaacaa tgccaagaaa gtggagaagc gaggccccag gcgctgggtg gtgctggtgg 240
38 cagtgctgtt cagctteete ttgeteteee teatggetgg ettgetggtg tggcacttee 300
39 attateggaa tgtgegggtt caaaaagtet teaatggeea tetgaggate acaaatgaga 360
40 tetttetgga tgegtatgag aacteeaeet ceaeagagtt tateageetg geeageeagg 420
41 tgaaggaggc gctgaagctg ctgtacaatg aagtccctgt cctgggtccc taccacaaga 480
42 agteggetgt aactgeette agtgagggea gtgteatege etactaetgg teagagttea 540
43 gcatecece acaeetggca gaagaggttg ategegeeat ggetgtggag egagttgtaa 600
44 cattgccacc ccgagcacgg gcactgaaat ccttcgtgct aacatctgtg gtggccttcc 660
45 ccattgaccc cagaatgctg cagaggactc aggacaacag ctgcagtttt gccctgcatg 720
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52 qtqqcqqctt tttqaqtqac acccaaggga catttagcag cccctactat ccaggccact 1140
53 accequedaa catcaactge acatggaata teaaggtgee caacaacegg aacgtgaagg 1200
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57 tectagetga gtacetetee taegaeteea aegaeeegtg eeeagggatg tteatgtgea 1440
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59 atagtgatga gcgttactgc cgatgcaatg ccacccacca gttcacgtgc aaaaaccagt 1560
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64 tgagcaaggg caaccetgag tgtgatggga agacggactg tagcgatggc teegatgaga 1860
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69 accagagcaa gegeagtgee tetggggtge aggagetgaa geteaaaegt atcateacee 2160
70 accetteett caatgattte acettegaet atgacatege ettgetggag etggagaagt 2220
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81 ttgcgtgcta gcggcccagc ctgggggcaa gggtttgatg gcagccttcc ccctctagcc 2880
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90 <213> ORGANISM: Mus musculus
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97 Glu Glu Gly Val Glu Phe Leu Pro Ala Asn Asn Ala Lys Lys Val Glu
98
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99 Lys Arg Gly Pro Arg Arg Trp Val Val Leu Val Ala Val Leu Phe Ser
101 Phe Leu Leu Ser Leu Met Ala Gly Leu Leu Val Trp His Phe His
102 65
                                            75
103 Tyr Arg Asn Val Arg Val Gln Lys Val Phe Asn Gly His Leu Arg Ile
                    85
                                        90
105 Thr Asn Glu Ile Phe Leu Asp Ala Tyr Glu Asn Ser Thr Ser Thr Glu
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                                    105
107 Phe Ile Ser Leu Ala Ser Gln Val Lys Glu Ala Leu Lys Leu Leu Tyr
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109 Asn Glu Val Pro Val Leu Gly Pro Tyr His Lys Lys Ser Ala Val Thr
111 Ala Phe Ser Glu Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser
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112	1 4 5					150					155					160
	145	Dro	Dro	II i o	T 011		C1.,	C1.,	v-1) an		א ז ה	Mot	7.1.5	v. l	
	TTE	Pro	PIO	нтѕ	165	Ата	GIU	GIU	val	170	AIG	Ата	мес	нта	175	GIU
114	7 ~~	Wa I	Wa I	Πh∽		Dro	Dro	λκα	א ז ה		א ז ה	Tou	T ***	Cor		Val
116	AIG	Val	vaı	180	ьeu	PIO	PIO	ALY	185	AIG	нта	Leu	гуз	190	Pile	Val
	Т ол	Thr	Com		Wa 1	7.1.	Dho	Dro		7 an	Dro	7 ~~	Mot		Cln	λπα
	Leu	1111	195	Val	val	нта	Pile		TTE	ASP	PIO	AIG		ьeu	GIII	ALG
118	mb ~	C1 n		N a n	000	Crra	Com	200	7 l a	т оп	II i a	7 l n	205	C1	ת 1 ת	ח ז ת
	1111	Gln 210	ASP	ASII	ser	Cys	215	Pne	Ата	Leu	нтѕ	220	нтѕ	GIY	Ата	ніа
120	Wa 1		λκα	Dho	шhъ	mb ~		C1	Dho	Dro	Nan		Dro	m	Dro	Ala
	225	THE	AIG	Pne	THE	230	PIO	GTÅ	Pne	PIO	235	ser	PIO	TAT	PIO	240
		ח ז ת	7 ~~	Crra	C1 n		37-1	Т он	A 200	C1		71-	N an	Com	W- 1	
123	птѕ	Ala	AIG	Cys	245	пр	Val	Leu	AIG	250	ASP	Ата	ASP	Ser	255	neu
	Cor	Leu	Thr	Dho		Cor	Dho	7 cn	Wa 1		Dro	Cvc	N an	Clu		C111
126	ser	Leu	1111	260	Arg	ser	PHE	ASP	265	нта	PIU	Суѕ	АЗР	270	птъ	СТУ
	C07	Asp	LOU		mh∽	wa 1	Пттъ	A an		Ť OU	C02	Dro	Mot		Dro	Uic
128	261	кэр	275	Val	1111	Val	тут	280	261	ьец	261	PIO	285	GIU	PIO	1113
	λla	Val		λκα	T 011	Cvc	C117		Dho	Cor	Dro	Cor		λcn	TOU	Thr
130	АТа	290	Val	Aly	ьеu	Cys	295	T 11T	FIIE	261	PIO	300	тут	ASII	neu.	1111
	Dho	Leu	Sor	Sor	Cln	λan		Dho	Lou	Val.	Пhr		Tlo	Thr	Nen	Thr
	305	цец	Ser	261	GIII	310	Val	FILE	пеп	Vai	315	пец	116	1111	กรแ	320
		Arg	Δrα	Hic	Dro		Dho	Glu	Δla	Thr		Dho	Gln	T.611	Dro	
134	дэр	лгу	лгу	птэ	325	СТУ	riie	GIU	ліц	330	rne	riie	GIII	пси	335	Lys
	Mot	Ser	Ser	Cvc		Glv	Dho	T.211	Ser		Thr	Gln	Glv	Thr		Ser
136	ricc	DCI	DCI	340	Gry	GLY	TIIC	шси	345	пор	1111	0111	OLY	350	1110	DCI
	Ser	Pro	Tur		Pro	Glv	His	Tur		Pro	Δsn	Tle	Δsn		Thr	Tro
138	DCI	110	355	- 1 -	110	011	1115	360	110	110	11511	110	365	0,5	1111	***
	Asn	Ile		Val	Pro	Asn	Asn		Asn	Val	Lvs	Val		Phe	Lvs	Len
140		370		,	110	11011	375	**** 9	11011	, 41	_15	380		1 110	_1_	Dou
	Phe	Tyr		Val	Asp	Pro		Va 1	Pro	Val	Glv		Cvs	Thr	Lvs	Asp
	385	-1-				390					395		-1-		-1-	400
		Val	Glu	Ile	Asn				Tvr	Cvs		Glu	Ara	Ser	Gln	
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146				420				_	425					430		-
147	His	Ser	Tyr	Thr	Asp	Thr	Gly	Phe	Leu	Ala	Glu	Tyr	Leu	Ser	Tyr	Asp
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149	Ser	Asn	Asp	Pro	Cys	Pro	Gly	Met	Phe	Met	Cys	Lys	Thr	Gly	Arg	Cys
150		450	-		-		455				-	460		-	-	_
	Ile	Arq	Lys	Glu	Leu	Arq	Cys	Asp	Gly	Trp	Ala	Asp	Cys	Pro	Asp	Tyr
152		-	-			470	-	-	-	-	475	-	•		-	480
153	Ser	Asp	Glu	Arg	Tyr	Cys	Arg	Cys	Asn	Ala	Thr	His	Gln	Phe	Thr	Cys
154		-		_	485	-	_	-		490					495	_
155	Lys	Asn	Gln	Phe	Cys	Lys	Pro	Leu	Phe	Trp	Val	Cys	Asp	Ser	Val	Asn
156	_			500	_	_			505	_		_	-	510		
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158	_	•	515	_	_		-	520		_			525			-
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:	168	_		595	_				600					605				
	169	Pne	610	ьуs	GIN	Ala	Arg	015	vaı	GIY	GIĀ	Thr	620	Ala	ASP	Glu	GTÅ	
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:	174	_	_			645					650					655		
	175 176	Cys	Phe	Gln	Asp 660	Asp	Lys	Asn	Phe	Lys 665	Tyr	Ser	Asp,	Tyr	Thr 670	Met	Trp	
		Thr	Ala	Phe		Glv	Leu	Leu	Asp		Ser	Lvs	Arq	Ser		Ser	Gly	
	178			675		•			680			-		685			-	
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	180 181	Asn	690 Phe	Thr	Phe	Asp	Tvr	695 Asp	Tle	Ala	Leu	Leu	700 Glu	Len	Glu	Lys	Ser	
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		Val	Glu	Tyr	Ser		Val	Val	Arg	Pro		Cys	Leu	Pro	Asp	Ala	Thr	
	184	uic	บาโ	Dho	Dro	725	C111	Two	λla	т10	730	บาไ	mh r	Clu	Trn	735 Gly	піс	
	186	птъ	vai	Pne	740	на	GIY	цуѕ	Ата	745	пр	vaı	1111	СТУ	750	Gry	птэ	
		Thr	Lys		Gly	Gly	Thr	Gly	Ala	Leu	Ile	Leu	Gln	Lys	Gly	${\tt Glu}$	Ile	
	188	3	37 1	755	2	01 -	m 1	mb	760	a 1	3	T	Wat	765	C1 =	C1 n	т1.	
	190	Arg	770	шe	ASII	GIII	THE	775	Cys	GIU	ASP	ьец	780	PIO	GTII	Gln	TIE	
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		785		~ 1	_	_	790		_	_	~	795			_	_	800	
	193 194	Cys	Gin	GIY	Asp	805	GIA	GLY	Pro	Leu	810	ser	Ата	GIU	Lys	Asp 815	GIA	
		Arg	Met	Phe	Gln		Gly	Val	Val	Ser		Gly	Glu	Gly	Cys	Ala	Gln	
-	196				820					825					830			
		Arg	Asn	Lys 835	Pro	Gly	Val	Tyr		Arg	Leu	Pro	Val	Val 845		Asp	Trp	
	198 199	Tle	Lys		His	Thr	Glv	Val	840					843	•			
			850				_	855										
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		<220> FEATURE:																
		<pre><220> FEATORE: <223> OTHER INFORMATION: Targeting vector</pre>																
		<400> SEQUENCE: 3																
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																	agacca	



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218 <211> LENGTH: 200
219 <212> TYPE: DNA
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222 <220> FEATURE:
223 <223> OTHER INFORMATION: Targeting vector
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227 agccaggcgt gtacacaagg ctccctgtag ttcgggactg gatcaaagag cacactgggg 120
228 tatagcagca tggacagaca gccgaccaca aacacccaca gggatgcccg acatgcacac 180

229 ctggatacag gagagggaca

VERIFICATION SUMMARY

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